

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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5 Sheets

Complete if Known

Application Number	10/527,725
Filing Date	September 16, 2002
First Named Inventor	Robert Shaw
Group Art Unit	Unknown
Examiner Name	Unknown

Attorney Docket Number TXTECH-0001 WO US (218601.7)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/YK/	1.	ALLAWI, H. T. and SantaLucia, J. Jr. (1997), "Thermodynamics and NMR of Internal G-T Mismatches in DNA", <i>Biochemistry</i> 36, 10581-10594.	
	2.	AMBLER, R. P., Daniel, M., Fleming, J., Hermoso, J. -M., Pang, C. and Waley, S. G. (1985), "The Amino Acid Sequence of the Zinc-Requiring β -Lactamase II from the bacterium <i>Bacillus cereus</i> ", <i>FEBS Lett.</i> 189, 207-211.	
	3.	BARTEL, D. P. and Szostak, J. W., (1993), "Isolation New Ribozymes from a Large Pool of Random Sequences", <i>Science</i> 261, 1411-1418.	
	4.	BICKNELL, R., Schaeffer, A., Waley, S. G. and Auld, D. S. (1986), "Changes in the Coordination Geometry of the Active-Site Metal During Catalysis of Benzylpenicillin Hydrolysis by <i>Bacillus cereus</i> β -Lactamase II", <i>Biochemistry</i> 25, 7208-7215.	
	5.	BOCK, L. C., Griffin, L. C., Latham, J. A., Vermass, E. H. and Toole, J. J. (1992), "Selection of Single-Stranded DNA Molecules that bind and Inhibit Human Thrombin", <i>Nature</i> 355, 564-566.	
	6.	CHEN, H. and Gold, L., (1994), "Selection of High-Affinity RNA Ligands to Reverse Transcriptase", <i>Biochemistry</i> 33, 8746-8756.	
	7.	CONCHA, N. O., Janson, C. A., Rowling, P., Pearson, S., Cheever, C. A., Clarke, B. P., Lewis, C., Galleni, M., Frere, J. M., Payne, D. J., Bateson, J. H. and Abdel-Meguid, S. S. (2000), "Crystal of the IMP-1 Metallo- β -Lactamase from <i>Pseudomonas aeruginosa</i> and its Complex with a Mercaptocarboxylate Inhibitor", <i>Biochemistry</i> 15, 4288-4298.	
	8.	CROMPTON, B., Jago, M., Crawford, K., Newton, G. G. F. and Abraham, E. P. (1962), "Behaviour of Some Derivatives of 7-Aminocephalosporanic Acid as Substrates, Inhibitors and Inducers of Penicillanases", <i>Biochem. J.</i> 83, 52-63.	
▼	9.	DAVIES, R. B. and Abraham, E. P. (1974), "Metal Cofactor Requirements of β -Lactamase II", <i>Biochem. J.</i> 143, 129-135.	

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	11	DAVIES, R. B. Abraham, E. P. Melling, J. and Pollock, M. R. (1975), "Comparison of β -lactamase II from <i>Bacillus cereus</i> 569/H/9 with a β -Lactamase from <i>Bacillus cereus</i> 5/B/6", <i>Biochem. J.</i> 145 , 409-411.	
	12	FARMULOK, M. and Szostak, J. W. (1992), "In Vitro Selection of Specific Ligand Binding Nucleic Acids", <i>Angew. Chem. Int. Ed. Engl.</i> 31 , 979-988.	
	13	FELICI, A. and Amicosante, G. (1995), "Kinetic Analysis of Extension of Substrate Specificity with <i>Xanthomonas maltophilia</i> , <i>Aeromonas hydrophilia</i> and <i>Bacillus cereus</i> Metallo- β -Lactamases", <i>Antimicrob. Agents Chemother.</i> 39 , 192-199.	
	14	FELICI, A., Amicosante, G., Oratore, A., Strom, R., Ledent, P., Joris, B., Fanuel, L. and Frere, J. -M. (1993), "An Overview of the Kinetic Parameters of Class B β -Lactamases", <i>Biochem. J.</i> 291 , 151-155.	
	15	FELICI, A., Perilli, M., Franceschini, N., Rossolini, G. M., Galleni, M., Frere, J. -M., Oratore, A. and Amicosante, G. (1997), "Sensitivity of <i>Aeromonas hydrophilia</i> Carbapenemase to Δ^3 -Cepheins", <i>Antimicrob. Agents Chemother.</i> 41 , 866-868.	
	16	HICKE, B. J. and Stephens, A. W. (2000), "Escort Aptamers", <i>J. Clin. Invest.</i> 106 , 923-928.	
▼	17	HILLIARD, N. P., (1995), Structure-Function Relationships in the Metallo- β -Lactamase of <i>Bacillus cereus</i> 5/B/6", Ph.D. thesis, Texas Tech University	

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/YK/	18	HUSSAIN, M., Pastor, F. I. J. and Lampen, J. O. (1987), "Cloning and Sequencing of the <i>blaZ</i> Gene Encoding β -Lactamase III, a Lipoprotein of <i>Bacillus cereus</i> 569/H", <i>J. Bacteriol.</i> 169 , 579-586.		T ²
	19	JAEGER, J. A., Turner, D. H. and Zuker, M. (1989), "Improved Predictions of Secondary Structures for RNA", <i>Proc. Natl. Acad. Sci. USA</i> 86 , 7706-7710.		
	20	JAEGER, J. A., Turner, D. H. and Zuker, M. (1990), "Predicting Optimal and Suboptimal Secondary Structure for RNA", <i>In Methods in Enzymology</i> 183 , 281-306.		
	21	JELLINEK, D., Green, L. S., Bell, C. and Janjic, N. (1994), "Inhibition of Receptor Binding by High-Affinity RNA Ligands to Vascular Endothelial Growth Factor", <i>Biochemistry</i> 33 , 10450-10456.		
	22	KOGUT, M., Pollock, M. R. and Tridgell, E. J. (1956), "Purification of Penicillin-Induced Penicillinase of <i>Bacillus cereus</i> NRRL 569", <i>Biochem. J.</i> 62 , 391-401.		
	23	KUWABARA, S., Adams, E. P. and Abraham, E. P. (1970), "Composition of β -lactamase I and β -Lactamase II from <i>Bacillus cereus</i> 569/H", <i>Biochem. J.</i> 118 , 475-480.		
	24	KUWABARA, S. and Lloyd, P. H. (1971), "Protein and Carbohydrate Moieties of a Preparation of β -Lactamase II", <i>Biochem. J.</i> 124 , 215-220.		
	25	LEDENT, P., Raquet, X., Joris, B., Van Beeumen, J. and Frere, J. -M. (1993), "A Comparative Study of Class D Beta-Lactamases", <i>Biochem. J.</i> 292 , 555-562.		
	26	LIM, H. M., Pene, J. J. and Shaw, R. W. (1988), "Cloning, Nucleotide Sequence and Expression of the <i>Bacillus cereus</i> 5/B/6 β -Lactamase II Structural Gene" <i>J. Bacteriol.</i> 170 , 2873-2878.		
↓	27	MACAYA, R. F., Waldron, J. A., Beutel, B. A., Gao, H., Joeston, M. E., Yang, M., Patel, R., Bertelsen, A. H. and Cook, A. G. (1995), "Structural and Functional Characterization of Potent Antithrombotic Oligonucleotides Possessing Both Quadruplex and Duplex Motifs", <i>Biochemistry</i> 34 , 4478-4492.		

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/YK/	28	MATAGNE, A., Ledent, P., Monnaie, D., Felici, A., Jamin, M., Raquet, X., Galleni, M., Klein, D., Francois, I. and Frere, J. M. (1995), "Kinetic Study of Interaction Between BRL 42715, β -Lactamases and D-Alanyl-D-Alanyl Peptidases", <i>Antimicrob Agents Chemother</i> 39, 227-231.	
	29	NEU, H. C. (1992), "The Crisis in Antibiotic Resistance", <i>Science</i> 257, 1064-1073.	
	30	PAYNE, D. J. (1993), "Metallo- β -lactamases-A New Therapeutic Challenge", <i>J. Med. Microbiol.</i> 39, 993-999.	
	31	RASMUSSEN, B. A., Yang, Y., Jacobs, N. and Bush, K. (1994), "Contribution of Enzymatic Properties, Cell Permeability and Enzyme Expression to Microbial Activities of Beta-lactams in Three <i>Bacteroides fragilis</i> Isolates that Harbor a Metallo- β -Lactamase gene", <i>Antimicrob Agents Chemother</i> . 38, 2116-2120.	
	32	ROBERTSON, D. L. and Joyce, G. F. (1990), "Selection <i>in vitro</i> of an RNA Enzyme that Specifically Cleaves Single-Stranded DNA", <i>Nature</i> 344, 467-468.	
	33	RUCKMAN, J., Green, L. S., Beeson, J., Waugh, S., Gillette, W. L., Henninger, D. D., Claesson-Welsh, L. and Janjic, N. (1998), "2'-Fluoropyrimidine RNA-Based Aptamers to the 165-Amino Acid Form of Vascular Endothelial Growth Factor (VEGF ₁₆₅)", <i>Journal of Biological Chemistry</i> 273, 20556-20567.	
	34	SABATH, L. D. and Abarham, E. P. (1966), "Zinc as a Cofactor for Cephalosporinase from <i>Bacillus cereus</i> 569", <i>Biochem. J.</i> 98, 11c-13c.	
▼	35	SUTTON, B. J., Artymiuk, P. J., Cordero-Borboa, A. E., Little, C., Philips, D. C. and Waley, S. G. (1987), "X-Ray Crystallographic Study of β -Lactamase II from <i>Bacillus cereus</i> at 0.35 nm Resolution", <i>Biochem. J.</i> 248, 181-188.	

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/YK/	36	TASSET, D. M., Kubik, M. F. and Steiner, W. (1997), "Oligonucleotide Inhibitors of Human Thrombin that Bind Distinct Epitopes", <i>J. Mol. Biol.</i> 272, 688-698.	
	37	THATCHER, D. R. (1975), "Partial Amino Acid Sequence of the Extracellular β -Lactamase I of <i>Bacillus cereus</i> 569/H", <i>Biochem. J.</i> 147, 313-326.	
	38	TSIANG, M., Gibbs, C. S., Griffin, L. C., Dunn, K. E. and Leung, L. K. (1995), "Selection of a Suppressor mutation That Restores Affinity of an Oligonucleotide Inhibitor for Thrombin Using <i>in Vitro</i> Genetics", <i>J. Biol. Chem.</i> 270, 19370-19376.	
	39	TUERK, C. and Gold, L. (1990), "Systematic Evolution of Ligands by Exponential Enrichment", <i>Science</i> 249, 505-510.	
	40	TURNER, D. H., Sugimoto, N. and Freier, S. M. (1988), "RNA Structure Prediction", <i>Annu. Rev. Biophys. Biophys. Chem.</i> 17, 167-192.	
	41	ZUBER, M., Patterson, T. A. and Court, D. L. (1987), "Analysis of <i>nutR</i> ", <i>Proc. Natl. Acad. Sci. USA</i> 84, 4514-4518.	
	42	ZUKER, M. (1989), "On Finding All Suboptimal Foldings of an RNA Molecule" <i>Science</i> 244, 48-52.	
↓	43	PITOUT JD, Sanders CC, Sanders WE Jr. Antimicrobial Resistance with Focus on Beta-lactam Resistance in Gram-Negative Bacilli. <i>Am J Med.</i> 1997 Jul;103(1):51-9.	

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	16	CONCHA, N. O., Rasmussen, B. A., Bush, K. and Herzberg, O. (1996), "Crystal Structure of the Wide-Spectrum Binuclear Zinc β-Lactamase from <i>Bacteroides fragilis</i> ", <i>Structure</i> 4, 823-836.	
	17	DANZIGER, L. H. and Pendland, S. L. (1995), "Bacterial Resistance to β-Lactam Antibiotics", <i>Am. J. health Syst. Pharm.</i> 52 (Suppl 2), S3-8.	
	18	DRAPER DE. Protein-RNA recognition. <i>Annu Rev Biochem.</i> 1995;64:593-620.	
	19	ELLINGTON A.D. and Szostak J. W. (1990), "In Vitro Selection of RNA Molecules that Bind Specific Ligands", <i>Nature</i> 346, 818-822.	
	20	FISHER, J., Charnas, R. L., Bradley, S. M. and Knowles, J. R. (1981), "Inactivation of the RTEM β-Lactamase from <i>Escherichia coli</i> ", <i>Biochemistry</i> 20, 2726-2731.	
	21	FOLK, J. E. and Schirmer, E. W. (1963), "The Porcine Pancreatic Carboxypeptidase A System", <i>J. Biol. Chem.</i> 238, 3884-3894.	
	22	FRERE, J. M. (1995) <i>Mol. Microbiol.</i> 16 (3) "β-Lactamases and Bacterial Resistance to Antibiotics", 385-395.	
↓	23	GARCIA-SAEZ I, Hopkins J, Papamicael C, Franceschini N, Amicosante G, Rossolini GM, Galleni M, Frere JM, Dideberg O. The 1.5-A structure of Chryseobacterium meningosepticum zinc beta-lactamase in complex with the inhibitor, D-captopril. <i>J Biol Chem.</i> 2003 Jun 27;278(26):23868-73. <i>Epub</i> 2003 Apr 8.	

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	25	GOLD, L., Polisky, B., Uhlenbeck, O. and Yarus, M., (1995), Diversity of Oligonucleotide Functions", <i>Annu. Rev. Biochem.</i> 64 , 763-797	
	26	HANAHAN, D. (1983), "Studies of Transformation of <i>Escherichia coli</i> with Plasmids", <i>J. Mol. Biol.</i> 166 , 557-580..	
	27	JORIS, B., Ledent, P., Dideberg, O., Fonze, E., Lamotte-Brasseur, J., Kelly, J. A., Ghuyzen, J. -M. and Frere, J. -M. (1991), "Comparison of the Sequences of Class A Beta-Lactamases and of the Secondary Structure Elements of Penicillin-Recognizing Proteins", <i>Antimicrob. Agents Chemother.</i> 35 , 2294-2301.	
	28	JOYCE, G. F. (1989), "Amplification, Mutation and Selection of Catalytic RNA", <i>Gene</i> 82 , 83-87.	
	29	KELLY, J. A., Knox, J. R., Moews, P. C., Moring, J. and Zhao, H. C. (1988), "Molecular Graphics: Studying β-Lactam Inhibition in Three Dimensions", in <i>Antibiotic Inhibition of Bacterial Cell surface Assembly and Function</i> (Actor, P., Daneo-Moore, L., Higgins, M. L., Salton, M. R. J. and Shockman, G. D., Ed.) pp. 261-267, American Society for Microbiology, Washington, D. C.	
	30	KLUG SJ, Famulok M. All you wanted to know about SELEX. <i>Mol Biol Rep.</i> 1994;20(2):97-107.	
	31	LIVERMORE, D. M. (1991), "Mechanisms of Resistance to β-Lactam Antibiotics", <i>Scand. J. Infect. Dis., Suppl.</i> 78 , 7-16	
↓	32	LOWRY, O. H., Rosebrough, N. J., Farr, A. L. and Randall, R. J. (1951), "Protein Measurement with the Folin Phenol Reagent", <i>J. Biol. Chem.</i> 193 , 265-275.	

Examiner Signature	/Young J. Kim/	Date Considered	01/23/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 6 Sheets

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Application Number	10/527,725
Filing Date	September 16, 2002
First Named Inventor	Robert Shaw
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	TXTECH-0001 WO US (218601.7)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/YK/	33	MAUGH, T. M. (1981), "A New Wave of Antibiotics Builds", <i>Science</i> 214, 1225-1228.	
	34	MAXAM, A. M. and Gilbert, W. (1977), "A New Method for Sequencing DNA", <i>Proc. Natl. Acad. Sci. USA</i> 74, 560-564.	
	35	MOLLARD, C., Moali, C., Papamicael, C., Damblon, C., Vessilier, S., Amicosante, G., Schofield, C. J., Galleni, M., Frere, J. M. and Roberts, G. C. (2001), "Thiomandelic Acid, a Broad Spectrum Inhibitor of Zinc β -Lactamases", <i>J. Biol. Chem.</i> 276 45015-45023.	
	36	PAYNE, D. J., Bateson, J. H., Gasson, B. C., Proctor, D., Khushi, T., Farmer, T. H., Tolson, D. A., Bell, D., Skett, P. W., Marshall, A. C., Reid, R., Ghosez, L., Combret, Y. and Marchand-Brynaert, J. (1997), "Inhibition of Metallo- β -Lactamases by a Series of Mercaptoacetic Acid Thiol Ester Derivatives", <i>Antimicrob. Agents Chemother.</i> 41, 135-140.	
	37	PITOUT, J. D. D., Sanders, C. C. and Sanders, W. E. (1997), "Antimicrobial Resistance with Focus on β -Lactam Resistance in Gram-negative Bacilli", <i>Am. J. Med.</i> 103, 51-59.	
	38	RAHIL, J. and Pratt, R. F. (1991), "Phosphonate Monoester Inhibitors of Class A β -Lactamases", <i>Biochem. J.</i> 275, 793-795.	
	39	REDDY, P., Peterkofsky, A. and McKenney, K. (1989), "Hyperexpression and Purification of Escherichia coli Adenylylate Cyclase Using a Vector Designed for Expression of Lethal Gene Products", <i>Nucleic Acids Res.</i> 17, 10473-10488.	
↓	40	SAMBROOK, J., Fritsch, E. F. and Maniatis, T. (1989), "Electrophoretic Purification of Oligonucleotides", <i>Molecular Cloning: a laboratory manual</i> , 2ed, pp. 7.70, and 7.76, Cold Spring Harbor Laboratory Press, New York.	

Examiner Signature	/Young J. Kim/	Date Considered	01/23/2008
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